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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/955,732

DATE: 10/09/2001
TIME: 09:56:25

Input Set : A:\433.app.txt
Output Set: N:\CRF3\10092001\I955732.raw

4 <110> APPLICANT: Luche, Ralf M.
 5 Wei, Bo
 7 <120> TITLE OF INVENTION: DSP-15 DUAL-SPECIFICITY PHOSPHATASE
 10 <130> FILE REFERENCE: 200125.433
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/955,732
 13 <141> CURRENT FILING DATE: 2001-09-18
 15 <160> NUMBER OF SEQ ID NOS: 27
 17 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 1980
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Homo sapiens
 24 <400> SEQUENCE: 1
 25 atggccctgg tcacagttag ccgttcgccc ccgggcagcg gcgcctccac gcccgtgggg 60
 26 ccctgggacc aggccgtcca gcbaaggagt cgactccagc gaaggcagag ctttgcgggtg 120
 27 ctccgtgggg ctgtcctggg actgcaggat ggagggaca atgatgatgc agcagaggcc 180
 28 agttctgagc caacagagaa ggcggccgagt gaggaggagc tccacgggga ccagacagac 240
 29 ttcgggcaag gatcccagag tccccagaag caggaggagc agaggcagca cctgcaccc 300
 30 atggtaacgc tgctgaggcc gcaggatgac atccgcctgg cagcccaact ggaggcaccc 360
 31 cggcctcccc ggctccgcta cctgctggta gtttctacac gagaaggaga aggtctgagc 420
 32 caggatgaga cggtcctccct gggcgtggat ttccctgaca gcagctcccc cagctgcacc 480
 33 ctggggcctgg tcttgcctct ctggagtgac acccaggtgt acttagatgg agacggggc 540
 34 ttcaagcgtga cgtctgggtgg gcaaagccgg atcttcaagc ccatctccat ccagaccatg 600
 35 tgggccacac tccaggatt gcaccaagca tgtgaggcag ctctaggcag cggccttgc 660
 36 cgggggtggca gtgcctcac ctggggccagc cactaccagg agagactgaa ctccgaacag 720
 37 agctgcctca atgagtggtac ggctatggcc gacctggagt ctctgcggcc tcccagcgcc 780
 38 gagcctggcg ggtcctcaga acaggagcag atggagcagg cgatccgtgc tgagctgtgg 840
 39 aaagtgttgg atgtcagtga cctggagaggt gtcacttcca aagagatcgg ccaggctctg 900
 40 gagctgcgcc tggggctccc cctccagcag taccgtgact tcatcgacaa ccagatgctg 960
 41 ctgctgggtgg cacagcggga ccgagcctcc cgcacatttc cccacctcta cctgggctca 1020
 42 gagtggAACG cagcaaacct ggaggagctg cagaggaaca gggtcaccca catcttgaac 1080
 43 atggcccccggg agattgacaa ctcttacccct gagegcttca cctaccacaa tgtgcgcctc 1140
 44 tggatgagg agtcggccca gctgctggcc cactggaaagg agacgcaccc cttcattgag 1200
 45 gctgcaagag cacagggcac ccacgtgtg gtccactgca agatgggcgt cagccgctca 1260
 46 gcccggccacag tgctggctta tggcatgaag cagtagaat gcagcctggc gcaggccctg 1320
 47 cgcacacgtgc aggagctccg gccatcgcc cgccccaacc ctggcttccct ggcacagctg 1380
 48 cagatctacc agggcatctt gacggccagc cgccagagcc atgtctgggaa gcagaaaagtg 1440
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 50 cccggccaaac ctgaggggtgg tggggaggag aaggtttagt gcatggaaga gagccaggca 1560
 51 gccccgaaag aagagcttgg gccacggccca cgtataaacc tccgaggggtt catgagggtcc 1620
 52 atcagtcttc tggagccctc ctggagctg gagagcacct cagagaccag tgacatgcca 1680
 53 gaggtcttct ctteccacga gtcttccat gaagagccctc tgccatggccctt cccacagctt 1740
 54 gcaaggacca agggaggccca gcagggtggac agggggccctc agcctgcctt gaagtcccgc 1800
 55 cagtcagtgg ttacccttca gggcagtgcc ctgggtggcca accggaccacca ggccttccag 1860
 56 gagcaggagc agggggcaggg gcaggggccag ggagagccct gcatttccct tacgcccagg 1920
 57 ttccggaaagg tggtagaca ggcacagctg catgacagtg gagaggaggg cgaggcctga 1980
 60 <210> SEQ ID NO: 2

ENTERED

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Input Set : A:\433.app.txt
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61 <211> LENGTH: 659
62 <212> TYPE: PRT
63 <213> ORGANISM: Homo sapiens
65 <400> SEQUENCE: 2
66 Met Ala Leu Val Thr Val Ser Arg Ser Pro Pro Gly Ser Gly Ala Ser
67 1 5 10 15
68 Thr Pro Val Gly Pro Trp Asp Gln Ala Val Gln Arg Arg Ser Arg Leu
69 20 25 30
70 Gln Arg Arg Gln Ser Phe Ala Val Leu Arg Gly Ala Val Leu Gly Leu
71 35 40 45
72 Gln Asp Gly Gly Asp Asn Asp Asp Ala Ala Glu Ala Ser Ser Glu Pro
73 50 55 60
74 Thr Glu Lys Ala Pro Ser Glu Glu Glu Leu His Gly Asp Gln Thr Asp
75 65 70 75 80
76 Phe Gly Gln Gly Ser Gln Ser Pro Gln Lys Gln Glu Glu Gln Arg Gln
77 85 90 95
78 His Leu His Leu Met Val Gln Leu Leu Arg Pro Gln Asp Asp Ile Arg
79 100 105 110
80 Leu Ala Ala Gln Leu Glu Ala Pro Arg Pro Pro Arg Leu Arg Tyr Leu
81 115 120 125
82 Leu Val Val Ser Thr Arg Glu Gly Glu Gly Leu Ser Gln Asp Glu Thr
83 130 135 140
84 Val Leu Leu Gly Val Asp Phe Pro Asp Ser Ser Pro Ser Cys Thr
85 145 150 155 160
86 Leu Gly Leu Val Leu Pro Leu Trp Ser Asp Thr Gln Val Tyr Leu Asp
87 165 170 175
88 Gly Asp Gly Gly Phe Ser Val Thr Ser Gly Gly Gln Ser Arg Ile Phe
89 180 185 190
90 Lys Pro Ile Ser Ile Gln Thr Met Trp Ala Thr Leu Gln Val Leu His
91 195 200 205
92 Gln Ala Cys Glu Ala Ala Leu Gly Ser Gly Leu Val Pro Gly Gly Ser
93 210 215 220
94 Ala Leu Thr Trp Ala Ser His Tyr Gln Glu Arg Leu Asn Ser Glu Gln
95 225 230 235 240
96 Ser Cys Leu Asn Glu Trp Thr Ala Met Ala Asp Leu Glu Ser Leu Arg
97 245 250 255
98 Pro Pro Ser Ala Glu Pro Gly Gly Ser Ser Glu Gln Glu Gln Met Glu
99 260 265 270
100 Gln Ala Ile Arg Ala Glu Leu Trp Lys Val Leu Asp Val Ser Asp Leu
101 275 280 285
102 Glu Ser Val Thr Ser Lys Glu Ile Arg Gln Ala Leu Glu Leu Arg Leu
103 290 295 300
104 Gly Leu Pro Leu Gln Gln Tyr Arg Asp Phe Ile Asp Asn Gln Met Leu
105 305 310 315 320
106 Leu Leu Val Ala Gln Arg Asp Arg Ala Ser Arg Ile Phe Pro His Leu
107 325 330 335
108 Tyr Leu Gly Ser Glu Trp Asn Ala Ala Asn Leu Glu Glu Leu Gln Arg
109 340 345 350
110 Asn Arg Val Thr His Ile Leu Asn Met Ala Arg Glu Ile Asp Asn Phe

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111	355	360	365
112	Tyr Pro Glu Arg Phe Thr Tyr His Asn Val Arg Leu Trp Asp Glu Glu		
113	370	375	380
114	Ser Ala Gln Leu Leu Pro His Trp Lys Glu Thr His Arg Phe Ile Glu		
115	385	390	395
116	Ala Ala Arg Ala Gln Gly Thr His Val Leu Val His Cys Lys Met Gly		400
117	405	410	415
118	Val Ser Arg Ser Ala Ala Thr Val Leu Ala Tyr Ala Met Lys Gln Tyr		
119	420	425	430
120	Glu Cys Ser Leu Glu Gln Ala Leu Arg His Val Gln Glu Leu Arg Pro		
121	435	440	445
122	Ile Ala Arg Pro Asn Pro Gly Phe Leu Arg Gln Leu Gln Ile Tyr Gln		
123	450	455	460
124	Gly Ile Leu Thr Ala Ser Arg Gln Ser His Val Trp Glu Gln Lys Val		
125	465	470	475
126	Gly Gly Val Ser Pro Glu Glu His Pro Ala Pro Glu Val Ser Thr Pro		
127	485	490	495
128	Phe Pro Pro Leu Pro Pro Glu Pro Glu Gly Gly Gly Glu Lys Val		
129	500	505	510
130	Val Gly Met Glu Glu Ser Gln Ala Ala Pro Lys Glu Glu Pro Gly Pro		
131	515	520	525
132	Arg Pro Arg Ile Asn Leu Arg Gly Val Met Arg Ser Ile Ser Leu Leu		
133	530	535	540
134	Glu Pro Ser Leu Glu Leu Glu Ser Thr Ser Glu Thr Ser Asp Met Pro		
135	545	550	555
136	Glu Val Phe Ser Ser His Glu Ser Ser His Glu Glu Pro Leu Gln Pro		
137	565	570	575
138	Phe Pro Gln Leu Ala Arg Thr Lys Gly Gly Gln Gln Val Asp Arg Gly		
139	580	585	590
140	Pro Gln Pro Ala Leu Lys Ser Arg Gln Ser Val Val Thr Leu Gln Gly		
141	595	600	605
142	Ser Ala Val Val Ala Asn Arg Thr Gln Ala Phe Gln Glu Gln Glu Gln		
143	610	615	620
144	Gly Gln Gly Gln Gly Gln Gly Glu Pro Cys Ile Ser Ser Thr Pro Arg		
145	625	630	635
146	Phe Arg Lys Val Val Arg Gln Ala Ser Val His Asp Ser Gly Glu Glu		
147	645	650	655
148	Gly Glu Ala		
152	<210> SEQ ID NO: 3		
153	<211> LENGTH: 156		
154	<212> TYPE: PRT		
155	<213> ORGANISM: Homo sapiens		
157	<400> SEQUENCE: 3		
158	Asp Gly Ser Pro Leu Ser Asn Ser Gln Pro Ser Phe Pro Val Glu Ile		
159	1	5	10
160	Leu Pro Phe Leu Tyr Leu Gly Cys Ala Lys Asp Ser Thr Asn Leu Asp		
161	20	25	30
162	Val Leu Glu Glu Phe Gly Ile Lys Tyr Ile Leu Asn Val Thr Pro Asn		
163	35	40	45

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```

164 Leu Pro Asn Leu Phe Glu Asn Ala Gly Glu Phe Lys Tyr Lys Gln Ile
165      50          55          60
166 Pro Ile Ser Asp His Trp Ser Gln Asn Leu Ser Gln Phe Phe Pro Glu
167      65          70          75          80
168 Ala Ile Ser Phe Ile Asp Glu Ala Arg Gly Lys Asn Cys Gly Val Leu
169          85          90          95
170 Val His Cys Leu Ala Gly Ile Ser Arg Ser Val Thr Val Thr Val Ala
171          100         105         110
172 Tyr Leu Met Gln Lys Leu Asn Leu Ser Met Asn Asp Ala Tyr Asp Ile
173          115         120         125
174 Val Lys Met Lys Lys Ser Asn Ile Ser Pro Asn Phe Asn Phe Met Gly
175          130         135         140
176 Gln Leu Leu Asp Phe Glu Arg Thr Leu Gly Leu Ser
177          145         150         155
180 <210> SEQ ID NO: 4
181 <211> LENGTH: 156
182 <212> TYPE: PRT
183 <213> ORGANISM: Homo sapiens
185 <400> SEQUENCE: 4
186 Asp Gly Ser Pro Val Pro Ser Ser Gln Pro Ala Phe Pro Val Gln Ile
187      1           5           10          15
188 Leu Pro Tyr Leu Tyr Leu Gly Cys Ala Lys Asp Ser Thr Asn Leu Asp
189          20          25          30
190 Val Leu Gly Lys Tyr Gly Ile Lys Tyr Ile Leu Asn Val Thr Pro Asn
191          35          40          45
192 Leu Pro Asn Ala Phe Glu His Gly Gly Glu Phe Thr Tyr Lys Gln Ile
193          50          55          60
194 Pro Ile Ser Asp His Trp Ser Gln Asn Leu Ser Gln Phe Phe Pro Glu
195      65          70          75          80
196 Ala Ile Ser Phe Ile Asp Glu Ala Arg Ser Lys Lys Cys Gly Val Leu
197          85          90          95
198 Val His Cys Leu Ala Gly Ile Ser Arg Ser Val Thr Val Thr Val Ala
199          100         105         110
200 Tyr Leu Met Gln Lys Met Asn Leu Ser Leu Asn Asp Ala Tyr Asp Phe
201          115         120         125
202 Val Lys Arg Lys Lys Ser Asn Ile Ser Pro Asn Phe Asn Phe Met Gly
203          130         135         140
204 Gln Leu Leu Asp Phe Glu Arg Thr Leu Gly Leu Ser
205          145         150         155
208 <210> SEQ ID NO: 5
209 <211> LENGTH: 156
210 <212> TYPE: PRT
211 <213> ORGANISM: Homo sapiens
213 <400> SEQUENCE: 5
214 Ala Thr Pro Pro Pro Val Gly Leu Arg Ala Ser Phe Pro Val Gln Ile
215      1           5           10          15
216 Leu Pro Asn Leu Tyr Leu Gly Ser Ala Arg Asp Ser Ala Asn Leu Glu
217          20          25          30
218 Ser Leu Ala Lys Leu Gly Ile Arg Tyr Ile Leu Asn Val Thr Pro Asn

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```

219      35          40          45
220 Leu Pro Asn Phe Phe Glu Lys Asn Gly Asp Phe His Tyr Lys Gln Ile
221      50          55          60
222 Pro Ile Ser Asp His Trp Ser Gln Asn Leu Ser Arg Phe Phe Pro Glu
223 65           70          75          80
224 Ala Ile Glu Phe Ile Asp Glu Ala Leu Ser Gln Asn Cys Gly Val Leu
225           85          90          95
226 Val His Cys Leu Ala Gly Val Ser Arg Ser Val Thr Val Thr Val Ala
227           100         105         110
228 Tyr Leu Met Gln Lys Leu His Leu Ser Leu Asn Asp Ala Tyr Asp Leu
229           115         120         125
230 Val Lys Arg Lys Lys Ser Asn Ile Ser Pro Asn Phe Asn Phe Met Gly
231           130         135         140
232 Gln Leu Leu Asp Phe Glu Arg Ser Leu Arg Leu Glu
233 145           150         155
236 <210> SEQ ID NO: 6
237 <211> LENGTH: 155
238 <212> TYPE: PRT
239 <213> ORGANISM: Homo sapiens
241 <400> SEQUENCE: 6
242 Leu Ser Gln Pro Cys Leu Pro Val Pro Ser Val Gly Leu Thr Arg Ile
243 1           5          10          15
244 Leu Pro His Leu Tyr Leu Gly Ser Gln Lys Asp Val Leu Asn Lys Asp
245           20          25          30
246 Leu Met Thr Gln Asn Gly Ile Ser Tyr Val Leu Asn Ala Ser Asn Ser
247           35          40          45
248 Cys Pro Lys Pro Asp Phe Ile Cys Glu Ser Arg Phe Met Arg Val Pro
249           50          55          60
250 Ile Asn Asp Asn Tyr Cys Glu Lys Leu Leu Pro Trp Leu Asp Lys Ser
251 65           70          75          80
252 Ile Glu Phe Ile Asp Lys Ala Lys Leu Ser Ser Cys Gln Val Ile Val
253           85          90          95
254 His Cys Leu Ala Gly Ile Ser Arg Ser Ala Thr Ile Ala Ile Ala Tyr
255           100         105         110
256 Ile Met Lys Thr Met Gly Met Ser Ser Asp Asp Ala Tyr Arg Phe Val
257           115         120         125
258 Lys Asp Arg Arg Pro Ser Ile Ser Pro Asn Phe Asn Phe Leu Gly Gln
259           130         135         140
260 Leu Leu Glu Tyr Glu Arg Thr Leu Lys Leu Leu
261 145           150         155
264 <210> SEQ ID NO: 7
265 <211> LENGTH: 154
266 <212> TYPE: PRT
267 <213> ORGANISM: Homo sapiens
269 <400> SEQUENCE: 7
270 Ser Asp Pro Arg Val Pro Ile Tyr Asp Gln Gly Gly Pro Val Glu Ile
271 1           5          10          15
272 Leu Pro Tyr Leu Tyr Leu Gly Ser Cys Asn His Ser Ser Asp Leu Gln
273           20          25          30

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/955,732

DATE: 10/09/2001

TIME: 09:56:26

Input Set : A:\433.app.txt

Output Set: N:\CRF3\10092001\I955732.raw

L:12 M:270 C: Current Application Number differs, Wrong Format